

**MODULAR MULTI-MEDIA COMMUNICATION MANAGEMENT SYSTEM****Abstract**

The improved AES processing method provides an efficient alternative to both  
5 Mips intensive multiplication and to conventional table lookup, used to multiply terms  
over a Galois field (GF). The improved method takes advantage of the fact that in the  
GF, any non zero element X can be represented by a power of a primitive element P.  
The improved method thereby results in a 2 by 256 table. The log base P of the terms  
being multiplied are looked up and summed, and the anti-log of the sum is looked up in  
10 the same table.